

RECEIVED: 4/30/2019	REVIEWER:	TYPE: SWD	APP NO: PMAM14127 36055
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ABOVE THIS TABLE FOR OCD DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
 - Geological & Engineering Bureau -
 1220 South St. Francis Drive, Santa Fe, NM 87505

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND
 REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Applicant: Permian Oilfield Partners, LLC.**OGRID Number:** 328259**Well Name:** Tidal Wave Federal SWD #1**API:** 30-025-Pending**Pool:** SWD; Devonian-Silurian**Pool Code:** 97869

**SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION
 INDICATED BELOW**

1) TYPE OF APPLICATION: Check those which apply for [A]

A. Location - Spacing Unit - Simultaneous Dedication

☐ NSL☐ NSP (PROJECT AREA)☐ NSP (PRORATION UNIT)☐ SD

B. Check one only for [I] or [II]

[I] Commingling - Storage - Measurement

☐ DHC☐ CTB☐ PLC☐ PC☐ OLS☐ OLM

[II] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX☐ PMX☒ SWD☐ IPI☐ EOR☐ PPR**2) NOTIFICATION REQUIRED TO:** Check those which apply.A. ☒ Offset operators or lease holdersB. ☐ Royalty, overriding royalty owners, revenue ownersC. ☒ Application requires published noticeD. ☐ Notification and/or concurrent approval by SLOE. ☒ Notification and/or concurrent approval by BLMF. ☒ Surface ownerG. ☒ For all of the above, proof of notification or publication is attached, and/or,H. ☐ No notice required**FOR OCD ONLY**☐ Notice Complete☐ Application
Content
Complete

- 3) CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sean Puryear

Print or Type Name

Signature

04/26/2019

Date

(817) 600-8772

Phone Number

spuryear@popmidstream.com

e-mail Address



Mr. Phillip Goetze
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Tidal Wave Federal SWD #1
Sec. 21, Twp. 25S, Rge. 32E
457' FSL, 1003' FEL
Lea County, NM

Mr. Goetze,
Attached is a C-108 Application for administrative approval of Permian Oilfield Partners LLC's proposed Tidal Wave Federal SWD #1 located in Sec 21, Twp 25S, Rge 32E, Lea County, New Mexico. This well will be completed open hole in the Devonian-Silurian formation and will be operated as a commercial salt water disposal well.

Similar application exhibits were sent to offset operators, mineral owners, lessees and the surface owner. The distribution list and proof of mailing, as well as affidavit of publication are enclosed. A copy of this application has also been sent to NM OCD District 1 in Hobbs.

If you have any questions, please contact us at (817)606-7630.

Sincerely,



Sean Puryear
Permian Oilfield Partners, LLC
spuryear@popmidstream.com

Date:

04/26/2019

APPLICATION FOR AUTHORIZATION TO INJECT

- I. **PURPOSE: Disposal**
Application qualifies for administrative approval? **Yes**
- II. **OPERATOR: Permian Oilfield Partners, LLC.**
ADDRESS: P.O. Box 1220, Stephenville, TX. 76401
CONTACT PARTY: Sean Puryear **PHONE: (817) 600-8772**
- III. **WELL DATA:** Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? **No**
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: **Sean Puryear** TITLE: **Manager**
SIGNATURE:  DATE: **4-24-2019**
E-MAIL ADDRESS: **spuryear@popmidstream.com**
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

Additional Data

1. **Is this a new well drilled for injection?**
Yes
2. **Name of the Injection Formation:**
Devonian: Open Hole Completion
3. **Name of Field or Pool (if applicable):**
SWD; Devonian-Silurian
4. **Has the well ever been perforated in any other zone(s)?**
No: New Drill for Injection of Produced Water
5. **Give the name and depths of any oil or gas zones underlying or overlying the proposed Injection zone in this area:**

Overlying Potentially Productive Zones:

Delaware, Bone Spring, Wolfcamp, Strawn, Atoka & Morrow Tops all above 15,027'

Underlying Potentially Productive Zones:

None

WELL CONSTRUCTION DATA

Permian Oilfield Partners, LLC.
Tidal Wave Federal SWD #1
457' FSL, 1003' FEL
Sec. 21, T25S, R32E, Lea Co. NM
Lat 32.1099469° N, Lon 103.6747370° W
GL 3389', RKB 3419'

Surface - (Conventional)

Hole Size: 26" Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 845'
Cement: 534 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5" Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 4706'
Cement: 1540 sks - Lite Class C (50:50:10) + Additives
Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25" Casing: 9.625" - 40# L-80 & 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 11912' ECP/DV Tool: 4806'
Cement: 2042 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)

Intermediate #3 - (Liner)

Hole Size: 8.5" Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11712'
Depth Btm: 17271'
Cement: 262 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11712' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5" Depth: 18616'
Inj. Interval: 17271' - 18616' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17226' Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80
X/O Depth: 11712' FJ Casing (Fiberglass Lined)
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17236' Packer: 5.5" - Perma-Pak or Equivalent (Inconel)

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Tidal Wave Federal SWD #1
457' FSL, 1003' FEL
Sec. 21, T25S, R32E, Lea Co. NM
Lat 32.1099469° N, Lon 103.6747370° W
GL 3389', RKB 3419'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 845'
Cement: 534 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
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Depth Top: Surface
Depth Btm: 4706'
Cement: 1540 sks - Lite Class C (50:50:10) + Additives
Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25"
Casing: 9.625" - 40# L-80 & 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 11912'
Cement: 2042 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4806'

Intermediate #3 - (Liner)

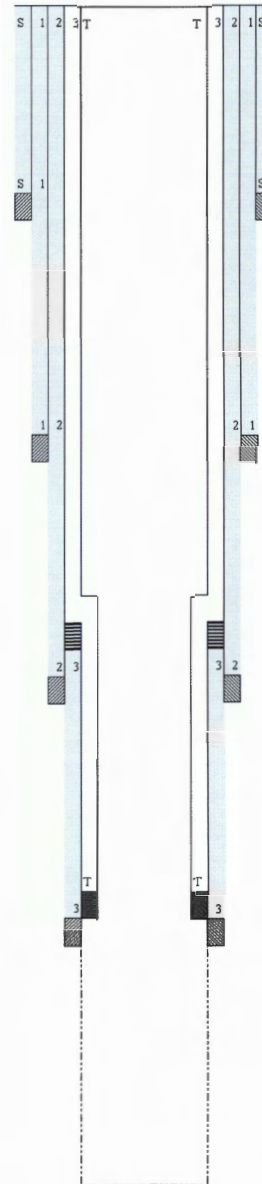
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11712'
Depth Btm: 17271'
Cement: 262 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11712' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18616'
Inj. Interval: 17271' - 18616' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17226'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11712'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17236'
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



VI: There are no wells within the proposed wells area of review that penetrate the Devonian Formation.

VII:

1. The average injected volume anticipated is 40,000 BWPD
The maximum injected volume anticipated is 50,000 BWPD
2. Injection will be through a closed system
3. The average injection pressure anticipated is 2,000 psi
The proposed maximum injection pressure is 3,454 psi
4. Disposal Sources will be produced waters from surrounding wells in the Delaware, Avalon, Bone Spring and Wolfcamp formations. These formation waters are known to be compatible with Devonian formation water. Representative area produced water analyses were sourced from Go-Tech's website and are listed below.

WELL NAME	FIGHTING OKRA 18 FEDERAL COM #001H	SALADO DRAW 6 FEDERAL #001H	RATTLESNAKE 13 12 FEDERAL COM #001H	SNAPPING 2 STATE #014H
api	3002540382	3002541293	3002540912	3001542688
latitude	32.0435333	32.0657196	32.0369568	32.06555986
longitude	-103.5164566	-103.5146942	-103.416214	-103.7413815
section	18	6	13	2
township	26S	26S	26S	26S
range	34E	34E	34E	31E
unit	E	M	P	P
ftgns	2590N	200S	330S	250S
ftgew	330W	875W	330E	330E
county	Lea	Lea	Lea	EDDY
state	NM	NM	NM	NM
formation	AVALON UPPER	BONE SPRING 3RD SAND	DELAWARE-BRUSHY CANYON	WOLFCAMP
sampledate	42046	41850	41850	42284
ph	8	6.6	6.2	7.3
tds_mgL	201455.9	99401.9	243517.1	81366.4
resistivity_ohm_cm	0.032	0.064	0.026	0.1004
sodium_mgL	66908.6	34493.3	73409.8	26319.4
calcium_mgL	9313	3295	15800	2687.4
iron_mgL	10	0.4	18.8	26.1
magnesium_mgL	1603	396.8	2869	326.7
manganese_mgL	1.6	0.37	3.12	
chloride_mgL	121072.7	59986.5	149966.2	50281.2
bicarbonate_mgL	1024.8	109.8	48.8	
sulfate_mgL	940	710	560	399.7
co2_mgL	1950	70	200	100

5. Devonian water analysis from the area of review is unavailable. Representative area water analyses were sourced from Go-Tech's website and are listed below.

WELL NAME	ANTELOPE RIDGE UNIT #003	BELL LAKE UNIT #006
api	3002521082	3002508483
latitude	32.2593155	32.3282585
longitude	-103.4610748	-103.507103
sec	34	6
township	23S	23S
range	34E	34E
unit	K	O
ftgns	1980S	660S
ftgew	1650W	1980E
county	LEA	LEA
state	NM	NM
field	ANTELOPE RIDGE	BELL LAKE NORTH
formation	DEVONIAN	DEVONIAN
samplesource	UNKNOWN	HEATER TREATER
ph	6.9	7
tds_mgL	80187	71078
chloride_mgL	42200	47900
bicarbonate_mgL	500	476
sulfate_mgL	1000	900

VIII: Injection Zone Geology

Fluid injection will take place in the Devonian-Silurian formations. This sequence is bounded above by the Upper Devonian Woodford shale. Underlying the Woodford is the first injection formation, the Devonian, consisting of dolomitic carbonates & chert, followed by the Upper Silurian dolomites, and the Lower Silurian Fusselman dolomite. The lower bound of the injection interval is the limestone of the Upper Ordovician Montoya. This proposed well will TD above the top of the Montoya, and will not inject fluids into the Montoya itself, in order to provide a sufficient barrier to preclude fluid injection into the Middle Ordovician Simpson, the Lower Ordovician Ellenburger, the Cambrian, and the PreCambrian below.

Injection zone porosities are expected to range from 0% to a high of 8%, with the higher ranges being secondary porosity in the form of vugs & fractures due to weathering effects, with occasional interbedded shaly intervals. Permeabilities in the 2-3% porosity grainstone intervals are estimated to be in the 10-15 mD range, with the higher porosity intervals conservatively estimated to be in the 40-50 mD range. It is these intervals of high secondary porosity and associated high permeability that are expected to take the majority of the injected water.

The Devonian-Silurian sequence is well suited for SWD purposes, with a low permeability shale barrier overlying the injection interval to prevent upward fluid migrations to USDW's, sufficient permeabilities and porosities in zone, and multiple formations available over a large depth range. This large injection depth range means there is a large injection surface area available, allowing for low injection pressures at high injection rates.

Permian Oilfield Partners, LLC.
Tidal Wave Federal SWD #1
457' FSL, 1003' FEL
Sec. 21, T25S, R32E, Lea Co. NM
Lat 32.1099469° N, Lon 103.6747370° W
GL 3389', RKB 3419'

GEOLOGY PROGNOSIS			
FORMATION	<u>TOP</u> KB TVD (ft)	<u>BOTTOM</u> KB TVD (ft)	<u>THICKNESS</u> (ft)
Salt	1,209	4,445	3,236
Delaware	4,681	8,697	4,016
Bone Spring	8,697	11,862	3,165
Wolfcamp	11,862	12,960	1,098
Lwr. Mississippian	16,716	17,011	295
Woodford	17,011	17,236	225
Devonian	17,236	18,086	850
Fusselman (Silurian)	18,086	18,641	555
Montoya (U. Ordovician)	18,641	19,279	638
Simpson (M. Ordovician)	19,279	19,917	638

2. According to the New Mexico Office of the State Engineer and field exploration, there are NO fresh water wells drilled within the proposed well's one-mile area of review. Regionally, shallow fresh water is known to exist at depths less than 625'. There are no underground sources of fresh water present below the injection interval.
- IX:** Formation chemical stimulation with 40,000 gals of 15% Hydrochloric Acid is planned after well completion.
- X:** A compensated neutron/gamma ray log will be run from surface to TD upon well completion. All logs will be submitted to the NMOCD upon completion.
- XI:** According to the New Mexico Office of the State Engineer and field exploration, there are NO fresh water wells drilled within the proposed well's one-mile area of review.
- XII:** Hydrologic affirmative statement attached.
- XIII:** Proof of notice and proof of publication attached.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-		² Pool Code 97869	³ Pool Name SWD; DEVONIAN-SILURIAN
⁴ Property Code	⁵ Property Name TIDAL WAVE FEDERAL SWD		⁶ Well Number 1
⁷ GRID NO. 328259	⁸ Operator Name PERMIAN OILFIELD PARTNERS, LLC		⁹ Elevation 3389'

¹⁰ Surface Location

UL or lot no. P	Section 21	Township 25S	Range 32E	Lot Idn	Feet from the 457	North/South line SOUTH	Feet From the 1003	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

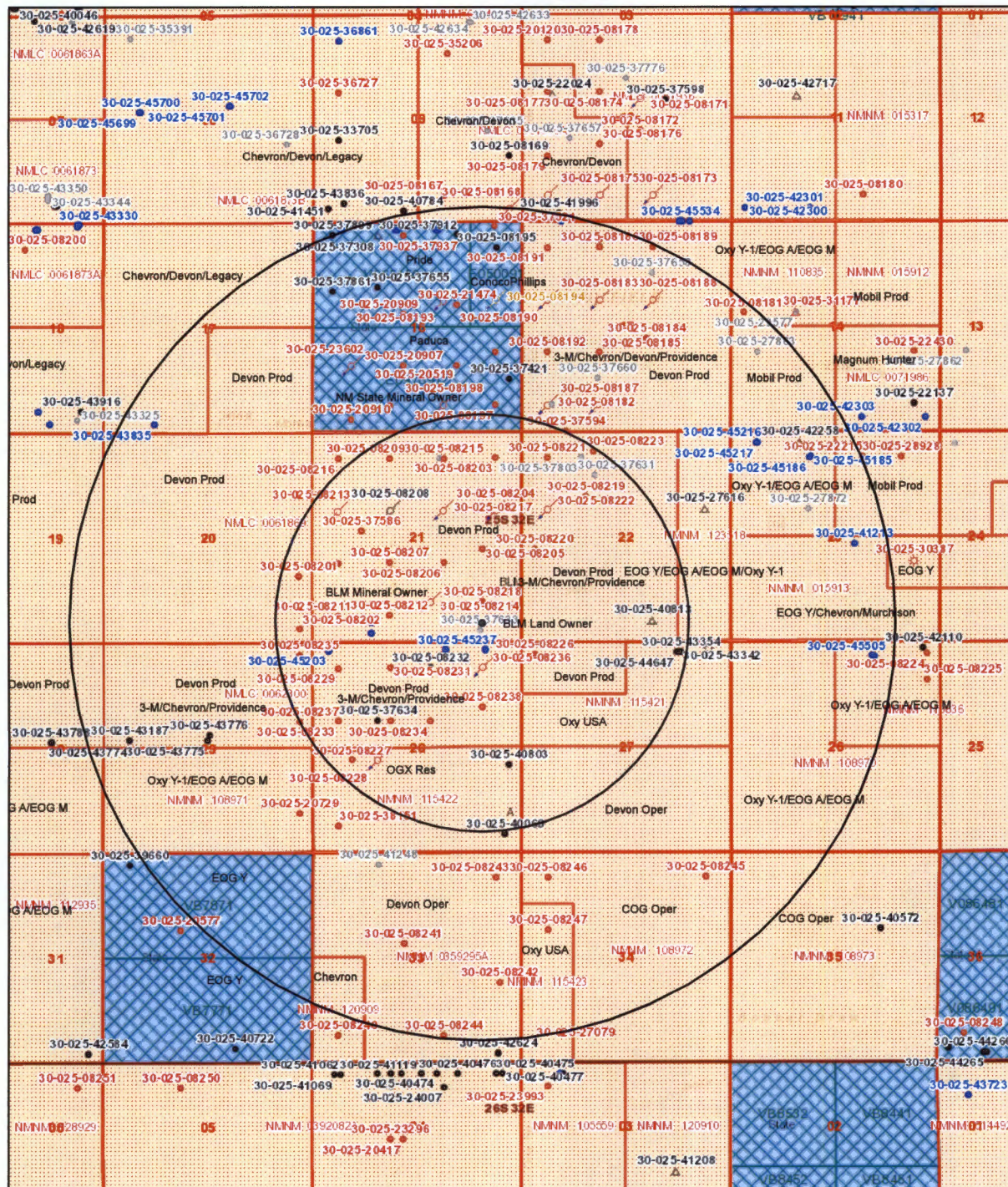
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

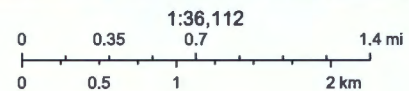
GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION (S.L.) N:404358.0 - E:745252.5 LAT:32.1099469° N LONG:103.6747370° W CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1939" N:403829.9 - E:740937.2 B: FOUND BRASS CAP "1939" N:406496.8 - E:740920.1 C: FOUND BRASS CAP "1939" N:409130.9 - E:740905.3 D: FOUND BRASS CAP "1939" N:409152.6 - E:743569.8 E: FOUND BRASS CAP "1939" N:409194.5 - E:746229.4 F: FOUND BRASS CAP "1939" N:406553.5 - E:746242.5 G: FOUND BRASS CAP "1939" N:403912.7 - E:746257.9 H: FOUND BRASS CAP "1939" N:403882.8 - E:743598.0		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Gary E Fisher</i> 4-17-2019 Signature Date Gary E Fisher Printed Name gfisher@popmidstream.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 3-30-19 Date of Survey Signature and Seal of Professional Surveyor 10034 Certificate Number Job No.: LS19030268R
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1 & 2 Mile AOR, Tidal Wave Federal SWD #1



4/21/2019, 9:15:27 PM

- ☐ Override 1
- Well Locations - Small Scale**
 - Active
 - New
 - Plugged
 - Cancelled
 - Temporarily Abandoned
- Well Locations - Large Scale**
 - Miscellaneous
 - CO2 Active
 - CO2 Cancelled
 - CO2 New
 - CO2, Plugged
 - CO2, Temporarily Abandoned
- Well Status**
 - Gas Active
 - Gas, Cancelled, Never Drilled
 - Gas, New
 - Gas, Plugged
 - Gas, Temporarily Abandoned
 - Injection, Active
 - Injection, Cancelled
 - Injection, New
 - Injection, Plugged
 - Injection, Temporarily Abandoned
 - Oil, Active
 - Oil, Cancelled
 - Oil, New
- Well Status**
 - Oil, Plugged
 - Oil, Temporarily Abandoned
 - Salt Water Injection, Active
 - Salt Water Injection, Cancelled
 - Salt Water Injection, New
 - Salt Water Injection, Plugged
 - Salt Water Injection Temporarily Abandoned
 - Water, Active
 - Water, Cancelled
 - Water, New
 - Water, Plugged
 - Water, Temporarily Abandoned
- ☐ PLSS First Division



U.S. BLM
Sources: Esri, HERE, Garmin, Intermap, increment P Corp.,
GEOCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL,
Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong),

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/> New Mexico Oil Conservation Division

Tidal Wave Federal SWD #1 - Wells within 1 Mile Area of Review															
API Number	Current Operator	Well Name	Well Number	Well Type	Well Direction	Well Status	Section	Township	Range	OCID Unit Letter	Surface Location	Bottomhole Location	Formation	MD	TWT
30-025-08201	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A02	Oil	Vertical	Plugged, Site Released	20	T255	R32E	I	L-20-255-32E 1650 F31 330 F61	L-20-255-32E 1650 F31 330 F61	DELAWARE	4735	4731
30-025-08202	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A03	Oil	Vertical	Plugged, Site Released	20	T255	R32E	P	P-20-255-32E 330 F31 330 F61	P-20-255-32E 330 F31 330 F61	DELAWARE	4700	4700
30-025-08203	OXY USA INC	COTTON DRAW UNIT	#A05	Oil	Vertical	Plugged, Site Released	21	T255	R32E	A	A-21-255-32E 660 F31 660 F61	A-21-255-32E 660 F31 660 F61	DELAWARE	4790	4790
30-025-08204	OXY USA INC	COTTON DRAW UNIT	#A06	Injection	Vertical	Plugged, Site Released	21	T255	R32E	H	H-21-255-32E 1980 F31 990 F61	H-21-255-32E 1980 F31 660 F61	DELAWARE	4784	4784
30-025-08205	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A07	Oil	Vertical	Plugged, Site Released	21	T255	R32E	I	I-21-255-32E 2310 F31 990 F61	I-21-255-32E 2310 F31 990 F61	DELAWARE	4767	4767
30-025-08206	POGO PRODUCING CO	COTTON DRAW UNIT	#A08	Oil	Vertical	Plugged, Site Released	21	T255	R32E	J	J-21-255-32E 1980 F31 990 F61	J-21-255-32E 1980 F31 990 F61	DELAWARE	4787	4787
30-025-08207	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A09	Oil	Vertical	Plugged, Site Released	21	T255	R32E	K	K-21-255-32E 1980 F31 990 F61	K-21-255-32E 1980 F31 990 F61	DELAWARE	4787	4787
30-025-08208	SAHARA OPERATING CO	COTTON DRAW UNIT	#A10	Injection	Vertical	Plugged, Site Released	21	T255	R32E	L	L-21-255-32E 1980 F31 990 F61	L-21-255-32E 1980 F31 990 F61	DELAWARE	4756	4756
30-025-08209	OXY USA INC	COTTON DRAW UNIT	#A11	Oil	Vertical	Active	21	T255	R32E	C	C-21-255-32E 1980 F31 990 F61	C-21-255-32E 1980 F31 990 F61	DELAWARE	4756	4756
30-025-08210	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A12	Oil	Vertical	Plugged, Site Released	21	T255	R32E	F	F-21-255-32E 1980 F31 990 F61	F-21-255-32E 1980 F31 990 F61	DELAWARE	4756	4756
30-025-08211	OXY USA INC	COTTON DRAW UNIT	#A13	Oil	Vertical	Plugged, Site Released	21	T255	R32E	M	M-21-255-32E 660 F31 660 F61	M-21-255-32E 660 F31 660 F61	DELAWARE	4784	4784
30-025-08212	OXY USA INC	COTTON DRAW UNIT	#A14	Oil	Vertical	Plugged, Site Released	21	T255	R32E	N	N-21-255-32E 660 F31 660 F61	N-21-255-32E 660 F31 660 F61	DELAWARE	4784	4784
30-025-08213	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A15	Oil	Vertical	Plugged, Site Released	21	T255	R32E	O	O-21-255-32E 1980 F31 990 F61	O-21-255-32E 1980 F31 990 F61	DELAWARE	4685	4685
30-025-08214	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A16	Injection	Vertical	Plugged, Site Released	21	T255	R32E	E	E-21-255-32E 990 F31 2310 F61	E-21-255-32E 990 F31 2310 F61	DELAWARE	4716	4716
30-025-08215	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A17	Oil	Vertical	Plugged, Site Released	21	T255	R32E	B	B-21-255-32E 660 F31 660 F61	B-21-255-32E 660 F31 2310 F61	DELAWARE	4734	4734
30-025-08216	OXY USA INC	COTTON DRAW UNIT	#A18	Oil	Vertical	Plugged, Site Released	21	T255	R32E	G	G-21-255-32E 1980 F31 990 F61	G-21-255-32E 1980 F31 990 F61	DELAWARE	4747	4747
30-025-08217	OXY USA INC	COTTON DRAW UNIT	#A19	Oil	Vertical	Plugged, Site Released	21	T255	R32E	P	P-21-255-32E 990 F31 990 F61	P-21-255-32E 990 F31 990 F61	DELAWARE	4707	4707
30-025-08218	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A20	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1650 F31 1650 F61	F-22-255-32E 1650 F31 1650 F61	DELAWARE	4756	4756
30-025-08219	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A21	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1650 F31 1650 F61	F-22-255-32E 1650 F31 1650 F61	DELAWARE	4756	4756
30-025-08220	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A22	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1650 F31 1650 F61	F-22-255-32E 1650 F31 1650 F61	DELAWARE	4682	4682
30-025-08221	OXY USA INC	COTTON DRAW UNIT	#A23	Oil	Vertical	Plugged, Site Released	22	T255	R32E	D	D-22-255-32E 1980 F31 660 F61	D-22-255-32E 1980 F31 660 F61	DELAWARE	4760	4760
30-025-08222	OXY USA INC	COTTON DRAW UNIT	#A24	Injection	Vertical	Plugged, Site Released	22	T255	R32E	E	E-22-255-32E 1980 F31 660 F61	E-22-255-32E 1980 F31 660 F61	DELAWARE	4717	4717
30-025-08223	OXY USA INC	COTTON DRAW UNIT	#A25	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1980 F31 660 F61	F-22-255-32E 1980 F31 660 F61	DELAWARE	4717	4717
30-025-08224	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A26	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1980 F31 660 F61	F-22-255-32E 1980 F31 660 F61	DELAWARE	4717	4717
30-025-08225	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A27	Oil	Vertical	Plugged, Site Released	22	T255	R32E	F	F-22-255-32E 1980 F31 660 F61	F-22-255-32E 1980 F31 660 F61	DELAWARE	4717	4717
30-025-08226	DEVON ENERGY PRODUCTION COMPANY, LP	G E JORDAN NC7-1	#016	Oil	Vertical	Plugged, Site Released	27	T255	R32E	D	D-27-255-32E 330 F31 330 F61	D-27-255-32E 330 F31 330 F61	DELAWARE	4763	4763
30-025-08227	DEVON ENERGY PRODUCTION COMPANY, LP	G E JORDAN NC7-1	#002	Oil	Vertical	Plugged, Site Released	28	T255	R32E	L	L-28-255-32E 0 F31 990 F61	L-28-255-32E 0 F31 990 F61	DELAWARE	4704	4704
30-025-08228	PRE-ONSARD WELL OPERATOR	PRE-ONSARD WELL	#001	Injection	Vertical	Plugged, Site Released	28	T255	R32E	K	K-28-255-32E 2310 F31 1650 F61	K-28-255-32E 0 F31 660 F61	DELAWARE	4755	4755
30-025-08229	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A45	Oil	Vertical	Plugged, Site Released	28	T255	R32E	D	D-28-255-32E 1980 F31 660 F61	D-28-255-32E 0 F31 660 F61	DELAWARE	4744	4744
30-025-08230	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A50	Oil	Vertical	Plugged, Site Released	28	T255	R32E	F	F-28-255-32E 1980 F31 990 F61	F-28-255-32E 1980 F31 990 F61	DELAWARE	4770	4770
30-025-08231	OXY USA INC	COTTON DRAW UNIT	#A47	Oil	Vertical	Plugged, Site Released	28	T255	R32E	C	C-28-255-32E 660 F31 1310 F61	C-28-255-32E 660 F31 1310 F61	DELAWARE	4750	4750
30-025-08232	SAHARA OPERATING CO	COTTON DRAW UNIT	#A51	Oil	Vertical	Active	28	T255	R32E	B	B-28-255-32E 660 F31 1310 F61	B-28-255-32E 660 F31 1310 F61	DELAWARE	4744	4744
30-025-08233	PRE-ONSARD WELL OPERATOR	PRE-ONSARD WELL	#015	Oil	Vertical	Plugged, Site Released	28	T255	R32E	E	E-28-255-32E 1980 F31 660 F61	E-28-255-32E 0 F31 2310 F61	DELAWARE	4738	4738
30-025-08234	PRE-ONSARD WELL OPERATOR	PRE-ONSARD WELL	#016	Oil	Vertical	Plugged, Site Released	28	T255	R32E	G	G-28-255-32E 1980 F31 2310 F61	G-28-255-32E 0 F31 2310 F61	DELAWARE	4770	4770
30-025-08235	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A55	Oil	Vertical	Plugged, Site Released	28	T255	R32E	A	A-28-255-32E 330 F31 330 F61	A-28-255-32E 330 F31 330 F61	DELAWARE	4727	4727
30-025-08236	TEACOC EXPLORATION & PRODUCTION INC	COTTON DRAW UNIT	#A56	Injection	Vertical	Plugged, Site Released	28	T255	R32E	A	A-28-255-32E 660 F31 990 F61	A-28-255-32E 660 F31 990 F61	DELAWARE	4760	4760
30-025-08237	G E JORDAN NC7-1	G E JORDAN NC7-1	#013	Oil	Vertical	Plugged, Site Released	28	T255	R32E	A	A-28-255-32E 660 F31 990 F61	A-28-255-32E 660 F31 990 F61	DELAWARE	4760	4760
30-025-08238	DEVON ENERGY PRODUCTION COMPANY, LP	G E JORDAN NC7-1	#020	Oil	Vertical	Plugged, Site Released	28	T255	R32E	H	H-28-255-32E 1980 F31 990 F61	H-28-255-32E 1980 F31 990 F61	DELAWARE	4622	4622
30-025-08239	DEVON ENERGY PRODUCTION COMPANY, LP	G E JORDAN NC7-1	#098	Oil	Vertical	Plugged, Site Released	28	T255	R32E	H	H-28-255-32E 1980 F31 990 F61	H-28-255-32E 1980 F31 990 F61	DELAWARE	4795	4795
30-025-08240	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#A99	Oil	Vertical	Cancelled Apd	22	T255	R32E	C	C-22-255-32E 1480 F31 1250 F61	C-22-255-32E 1480 F31 1250 F61	DELAWARE	4900	4900
30-025-08241	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#A99	Oil	Vertical	Cancelled Apd	22	T255	R32E	C	C-22-255-32E 1480 F31 1250 F61	C-22-255-32E 1480 F31 1250 F61	DELAWARE	4900	4900
30-025-08242	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#100	Oil	Vertical	Cancelled Apd	28	T255	R32E	D	D-28-255-32E 990 F31 330 F61	D-28-255-32E 990 F31 330 F61	DELAWARE	5000	5000
30-025-08243	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#101	Oil	Vertical	Cancelled Apd	28	T255	R32E	P	P-21-255-32E 280 F31 0775 F61	P-21-255-32E 280 F31 0775 F61	DELAWARE	5000	5000
30-025-08244	SAHARA OPERATING CO	COTTON DRAW UNIT	#101	Oil	Vertical	Active	28	T255	R32E	F	F-28-255-32E 1980 F31 1650 F61	F-28-255-32E 1980 F31 1650 F61	DELAWARE	5000	5000
30-025-08245	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#106	Oil	Vertical	Cancelled Apd	28	T255	R32E	B	B-21-255-32E 660 F31 2100 F61	B-21-255-32E 660 F31 2100 F61	DELAWARE	5000	5000
30-025-08246	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08247	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08248	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08249	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08250	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08251	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08252	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08253	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08254	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08255	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08256	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08257	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08258	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08259	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08260	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08261	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08262	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08263	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08264	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08265	POGO PRODUCING COMPANY LLC	COTTON DRAW UNIT	#108	Oil	Vertical	Cancelled Apd	28	T255	R32E	A	A-21-255-32E 660 F31 1500 F61	A-21-255-32E 660 F31 1500 F61	DELAWARE	5000	5000
30-025-08266															



Statement of Notifications

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Tidal Wave Federal SWD #1
Sec. 21, Twp. 25S, Rge. 32E
457' FSL, 1003' FEL
Lea County, NM

Permian Oilfield Partners, LLC has mailed notifications to offset operators, mineral owners, lessees and the surface owner as per the following list:

Tidal Wave Federal SWD #1 - Affected Persons within 1 Mile Area of Review					
Notified Name	Notified Address	Notified City, State, ZIP Code	Shipper	Tracking No.	Mailing Date
Oxy USA Inc	P.O. Box 4294	Houston, TX 77210-4294	USPS	9414811899561824625621	4/26/2019
Pogo Producing Co	P.O. Box 10340	Midland, TX 79702	USPS	9414811899561824625065	4/26/2019
Sahara Operating Co	P.O. Box 4130	Midland, TX 79704	USPS	9414811899561824625522	4/26/2019
Devon Energy Production Company, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899561824624464	4/26/2019
Pogo Producing Company LLC	700 Milam Suite 1300	Houston, TX 77002	USPS	9414811899561824625416	4/26/2019
COG Production, LLC	P.O. Box 2064	Midland, TX 79702	USPS	9414811899561824624037	4/26/2019
Mesquite SWD, Inc	P.O. Box 1479	Carlsbad, NM 88221	USPS	9414811899561824625829	4/26/2019
Mewbourne Oil Co	P.O. Box 5270	Hobbs, NM 88241	USPS	9414811899561824625874	4/26/2019
Bureau Of Land Management	620 E Greene St	Carlsbad, NM 88220	USPS	9414811899561824624341	4/26/2019
New Mexico State Land Office	2827 N Dal Paso St Suite 117	Hobbs, NM 88240	USPS	9414811899561824625911	4/26/2019
New Mexico State Land Office	310 Old Santa Fe Trail	Santa Fe, NM 87501	USPS	9414811899561824625706	4/26/2019
EOG Resources Inc	P.O. Box 2267	Midland, TX 79702	USPS	9414811899561824625256	4/26/2019
Devon Energy Operating Company, LP	333 West Sheridan Ave.	Oklahoma City, OK 73102	USPS	9414811899561824914275	4/26/2019
3-M Energy Co	502 S Koenigheim St # 2B	San Angelo, TX 76903	USPS	9414811899561824624310	4/26/2019
Providence Minerals LLC	16400 North Dallas Parkway, Suite 400	Dallas, Texas 75248	USPS	9414811899561824625485	4/26/2019
Paduca Partners LLC	6400 South Fiddler's Green Circle, Suite 2100	Greenwood Village, CO 80111	USPS	9414811899561824625362	4/26/2019
OGX Resources Inc	400 North Marienfeld Street Suite 200	Midland, TX 79701-4559	USPS	9414811899561824625973	4/26/2019
Oxy USA Inc	5 Greenway Plaza Suite 110	Houston, TX 77046	USPS	9414811899561824625119	4/26/2019
EOG Y Resources Inc	104 South 4th Street	Artesia, NM 88210-2123	USPS	9414811899561824625249	4/26/2019
EOG A Resources Inc	105 South 4th Street	Artesia, NM 88210-2123	USPS	9414811899561824624518	4/26/2019
Oxy Y-1 Company	5 Greenway Plaza	Houston, TX 77046	USPS	9414811899561824625126	4/26/2019
EOG M Resources Inc	P.O. BOX 840	Artesia, NM 88211	USPS	9414811899561824624532	4/26/2019
Chevron USA Inc	6301 Deauville Blvd	Midland, TX 79706	USPS	9414811899461824624051	4/26/2019

Sean Puryear
Permian Oilfield Partners, LLC
spuryear@popmidstream.com

Date: 4-26-2019

U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1824 6256 21

ARTICLE ADDRESSED TO:

Oxy USA
PO Box 4294
Houston TX 77210-4294

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6255 22

ARTICLE ADDRESSED TO:

Sahara Operating Co.
PO Box 4130
Midland TX 79704-4130

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6254 16

ARTICLE ADDRESSED TO:

Pogo Producing Company LLC
700 Milam St Suite 1300
Houston TX 77002-2736

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Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6250 65

ARTICLE ADDRESSED TO:

Pogo Producing Co.
PO Box 10340
Midland TX 79702-7340

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Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 9142 75

ARTICLE ADDRESSED TO:

Devon Energy Operating Co, LP
333 West Sheridan Ave
Oklahoma City OK 73102-5010

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6240 37

ARTICLE ADDRESSED TO:

COG Production, LLC
PO Box 2064
Midland TX 79702-2064

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6244 64

ARTICLE ADDRESSED TO:

Devon Energy Production Co., LP
333 West Sheridan Ave
Oklahoma City OK 73102-5010

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6254 85

ARTICLE ADDRESSED TO:

Providence Minerals LLC
16400 Dallas Pkwy, Suite 400
Dallas TX 75248-2643

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6259 73

ARTICLE ADDRESSED TO:

OGX Resources Inc
400 North Marienfeld St., Suite 200
Midland TX 79701-4559

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6243 10

ARTICLE ADDRESSED TO:

3-M Energy Co
502 S. Koenigheim St. Ste 2B
San Angelo TX 76903-6769

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

Postmark
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ARTICLE NUMBER: 9414 8118 9956 1824 6253 62

ARTICLE ADDRESSED TO:

Paduca Partners LLC
6400 South Fdl Gn Circle, Suite 2100
Greenwood Village CO 80111-4938

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6251 10

ARTICLE ADDRESSED TO:

Oxy USA Inc
5 Greenway Plaza, Suite 110
Houston TX 77046-0521

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6258 29

ARTICLE ADDRESSED TO:

Mesquite SWD, Inc.
PO Box 1479
Carlsbad NM 88221-1479

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6258 74

ARTICLE ADDRESSED TO:

Mewbourne Oil Co.
PO Box 5270
Hobbs NM 88241-5270

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6243 41

ARTICLE ADDRESSED TO:

Bureau of Land Management
620 E Greene St
Carlsbad NM 88220-6292

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6259 11

ARTICLE ADDRESSED TO:

New Mexico State Land Office
2827 N Dal Paso St. Suite 117
Hobbs NM 88240-2062

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

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ARTICLE NUMBER: 9414 8118 9956 1824 6257 06

ARTICLE ADDRESSED TO:

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe NM 87501-2708

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

Postmark
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U.S. Postal Service Certified Mail Receipt

ARTICLE NUMBER: 9414 8118 9956 1824 6252 56

ARTICLE ADDRESSED TO:

EOG Resources, Inc.
PO Box 2267
Midland TX 79702-2267

FEES

Postage Per Piece	\$3.05
Certified Fee	3.50
Total Postage & Fees:	6.55

Postmark
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U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1824 6252 49

ARTICLE ADDRESSED TO:

EOG Y Resources, Inc.
104 South 4th Street
Artesia NM 88210-2123

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

Postmark
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U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1824 6245 18

ARTICLE ADDRESSED TO:

EOG A Resources Inc.
105 South 4th Street
Artesia NM 88210-2177

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

Postmark
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U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1824 6251 26

ARTICLE ADDRESSED TO:

Oxy Y-1 Company
5 Greenway Plaza
Houston TX 77046-0526

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

Postmark
Here



U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1824 6245 32

ARTICLE ADDRESSED TO:

EOG M Resources Inc.
PO Box 840
Artesia NM 88211-0840

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

\$3.05
3.50
6.55

Postmark
Here



U.S. Postal Service **Certified Mail Receipt**

ARTICLE NUMBER: 9414 8118 9956 1824 6240 51

ARTICLE ADDRESSED TO:

Chevron USA
6301 Deauville
Midland TX 79706-2964

FEES

Postage Per Piece
Certified Fee
Total Postage & Fees:

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6.55

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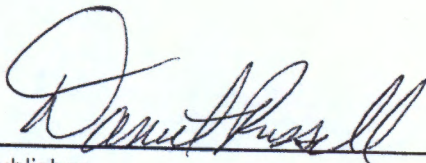


Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

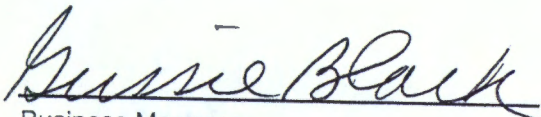
I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
April 23, 2019
and ending with the issue dated
April 23, 2019.



Publisher

Sworn and subscribed to before me this
23rd day of April 2019.

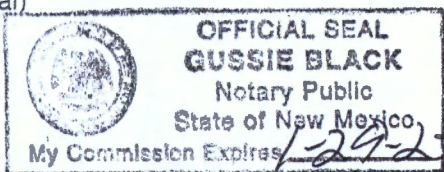


Business Manager

My commission expires

January 29, 2023

(Seal)



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE April 23, 2019

Permian Oilfield Partners, LLC, PO Box 1220, Stephenville, TX 76401, phone (817) 606-7630, attention Gary Fisher, has filed form C-108 (Application for Authorization for Injection) with the New Mexico Oil Conservation Division seeking approval to drill a commercial salt water disposal well in Lea County, New Mexico. The well name is the Tidal Wave Federal SWD #1, and is located 457' FSL & 1003' FEL, Unit Letter P, Section 21, Township 25 South, Range 32 East, NMPM. The well will dispose of water produced from nearby oil and gas wells into the Devonian formation from a depth of 17,271 feet to 18,616 feet. The maximum expected injection rate is 50,000 B/WPD at a maximum surface injection pressure of 3,454 psi.

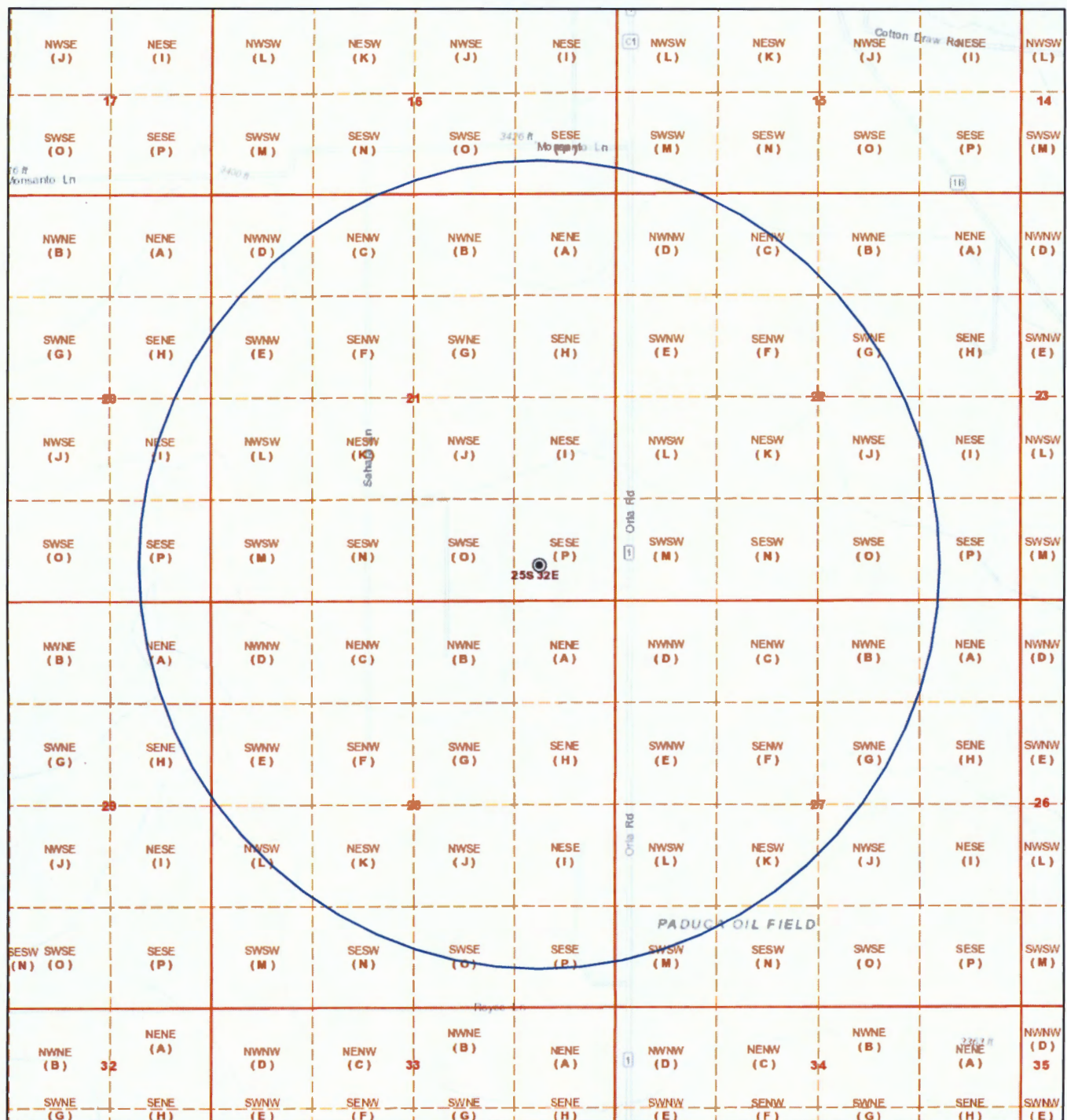
Interested parties must file objections or requests for hearing with the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.
#34060

67115647

00227338

GARY FISHER
PERMIAN OILFIELD PARTNERS, LLC
PO BOX 1220
STEPHENVILLE, TX 76401

Tidal Wave Federal SWD #1 - Water Wells within 1 Mile AOR



4/17/2019, 11:36:35 AM

Override 1

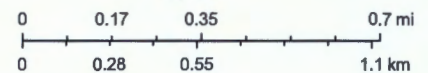
Override 1

PLSS First Division

PLSS Second Division

PLSS Townships

1:18,056



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has been
replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD

POD Number	Sub-basin	Code	County	Q	Q	Q	Q	Sec	Tws	Rng	X	Y	Depth	Well	Water Column	Water
				64	16	4										
C 02312	CUB		LE	1	2	1	05	25S	33E		632241	3559687*		150	90	60
C 02313	CUB		LE	2	3	3	26	25S	33E		636971	3552098*		150	110	40
C 02373 CLW317846	CUB	O	LE	2	1	1	13	25S	33E		638518	3556544*		625	185	440
C 02373 S	CUB		LE	1	2	1	13	25S	33E		638721	3556549*		625	185	440

Average Depth to Water:

142 feet

Minimum Depth:

90 feet

Maximum Depth:

185 feet

Record Count: 4

PLSS Search:

Township: 25S **Range:** 33E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/22/19 9:50 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER



Item XII. Affirmative Statement

Re: C-108 Application for SWD Well
Permian Oilfield Partners, LLC
Tidal Wave Federal SWD #1
Sec. 21, Twp. 25S, Rge. 32E
457' FSL, 1003' FEL
Lea County, NM

Permian Oilfield Partners, LLC. has examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

A handwritten signature in black ink, appearing to read "Gary Fisher". The signature is fluid and cursive, with the first name "Gary" and last name "Fisher" clearly distinguishable.

Gary Fisher
Manager
Permian Oilfield Partners, LLC.

Date: 4/24/2019

Plugging Risk Assessment
Permian Oilfield Partners, LLC.
Tidal Wave Federal SWD #1
SL: 457' FSL & 1003' FEL
Sec 21, T25S, R32E
Lea County, New Mexico

WELLBORE SCHEMATIC

Permian Oilfield Partners, LLC.
Tidal Wave Federal SWD #1
457' FSL, 1003' FEL
Sec. 21, T25S, R32E, Lea Co. NM
Lat 32.1099469° N, Lon 103.6747370° W
GL 3389', RKB 3419'

Surface - (Conventional)

Hole Size: 26"
Casing: 20" - 94# H-40 STC Casing
Depth Top: Surface
Depth Btm: 845'
Cement: 534 sks - Class C + Additives
Cement Top: Surface - (Circulate)

Intermediate #1 - (Conventional)

Hole Size: 17.5"
Casing: 13.375" - 54.5# J-55 & 61# J-55 STC Casing
Depth Top: Surface
Depth Btm: 4706'
Cement: 1540 sks - Lite Class C (50:50:10) + Additives
Cement Top: Surface - (Circulate)

Intermediate #2 - (Conventional)

Hole Size: 12.25"
Casing: 9.625" - 40# L-80 & 40# HCL-80 BTC Casing
Depth Top: Surface
Depth Btm: 11912'
Cement: 2042 sks - Lite Class C (60:40:0) + Additives
Cement Top: Surface - (Circulate)
ECP/DV Tool: 4806'

Intermediate #3 - (Liner)

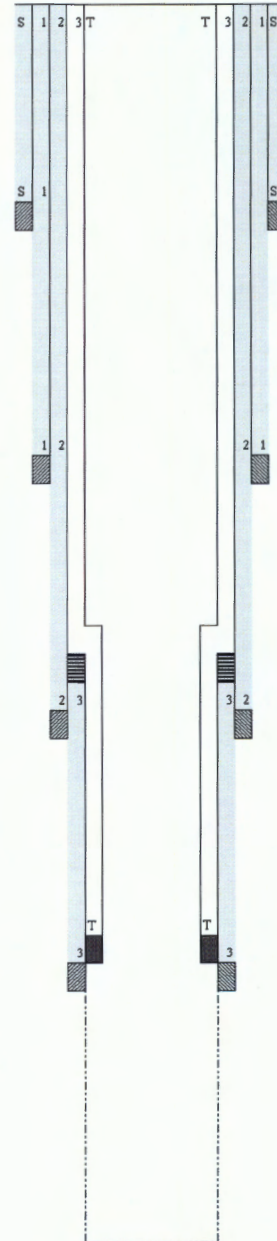
Hole Size: 8.5"
Casing: 7.625" - 39# HCL-80 FJ Casing
Depth Top: 11712'
Depth Btm: 17271'
Cement: 262 sks - Lite Class C (60:40:0) + Additives
Cement Top: 11712' - (Volumetric)

Intermediate #4 - (Open Hole)

Hole Size: 6.5"
Depth: 18616'
Inj. Interval: 17271' - 18616' (Open-Hole Completion)

Tubing - (Tapered)

Tubing Depth: 17226'
Tubing: 7" - 26# HCP-110 FJ Casing & 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
X/O Depth: 11712'
X/O: 7" 26# HCP-110 FJ Casing - X - 5.5" 17# HCL-80 FJ Casing (Fiberglass Lined)
Packer Depth: 17236'
Packer: 5.5" - Perma-Pak or Equivalent (Inconel)



Plugging Risk Assessment

7" UFJ Tubing Inside of 9 5/8" 40# Casing

Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 6 5/8" to 7 1/4" Inclusive

Maximum Catch Size (Spiral)		6 5/8"	6 3/4"	7"	7 1/4"
Maximum Catch Size (Basket)		5 7/8"	6 1/8"	6 5/8"	6 5/8"
Overshot O.D.		8 3/4"	7 3/4"	8 3/4"	8 3/4"
Type		F.S.	S.H.	S.H.	S.H.
Complete Assembly	Part No.	C-3032	C-5222	9217	C-5354
(Dressed Spiral Parts)	Weight	280	243	251	260

Replacement Parts

Top Sub	Part No.	A-3033	A-5223	9218	A-5355
Bowl	Part No.	B-3034	B-5224	9219	B-5356
Packer	Part No.	A-1814	B-5225	9224	B-5357
Spiral Grapple	Part No.	N-84	B-5227	9222	B-5359
Spiral Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Standard Guide	Part No.	A-1818	A-5229	9226	A-5361

Basket Parts

Basket Grapple	Part No.	N-84	B-5227	9222	B-5359
Basket Grapple Control	Part No.	M-89	A-5228	9223	B-5360
Mill Control Packer	Part No.	A-1814-R	B-5225-R	9224-R	B-5357-R

A 6.375" O.D. Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

7" 26# FJ Casing Inside 9.625" 40# BTC Casing

Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Type	Body O.D. (in)	Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft	Lined I.D. (in)	Flare I.D. (in)	Lined Drift (in)
0.840	9 5/8	40.0	L-80	BTC	Casing	9.625	10.625	8.835	8.679	-	-	-	-
	7	26.0	HCP-110	FJ	Casing	7.000	7.000	6.276	6.151	28.500	6.080	5.940	5.815

*Red Indicates Tubing

Fishing Procedure

Overshot Fishing Procedure

In the Event of a Connection Break

- If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

- If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.
5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

In the Event of a Body Break

- If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

- If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.

5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

Spear Fishing Procedure

If an overshot cannot be used to retrieve the fish, a spear may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
 2. Engage the insert liner inside the tubing with spear.
 3. Pull the insert liner out of the tubing.
 4. Trip out of hole with insert liner.
 5. Trip in hole with spear sized to engage the I.D. of the tubing.
 6. Engage the tubing with spear.
 7. Pick up 2 points over neutral weight.
 8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
 9. Once released from packer, trip out of hole with fish.

Inside Diameter Cutting Tool Fishing Procedure

If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
 2. Engage the insert liner inside the tubing with spear.
 3. Pull the insert liner out of the tubing.
 4. Trip out of hole with insert liner.
 5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
 6. Trip out hole with cutting tool.
 7. Trip in hole with spear sized to engage the I.D. of the tubing.
 8. Engage the previously cut tubing segment with spear.
 9. Trip out hole with cut tubing segment and spear.
 10. Trip in hole with overshot and engage fish.
 11. Pick up 2 points over neutral weight.
 12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
 13. Once released from packer, trip out of hole with fish.

5 1/2" UFJ Tubing Inside of 7 5/8" 39# Casing

Series 150 Overshots

Tools are listed in order of maximum catch size.

The following table shows only a partial listing of available NOV Dowhole Bowen® overshots.

NOTE: Nitralloy Grapples are available upon request.

Bowen Series 150 Releasing and Circulation Overshots

Maximum Catch Size 4 1/4" to 5 1/2" Inclusive

Maximum Catch Size (Spiral)		4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"	5 1/4"	5 1/2"
Maximum Catch Size (Basket)		3 3/4"	4"	4 1/4"	4 1/2"	4 3/4"	4 7/8"	5"
Overshot O.D.		5 3/4"	5 1/2"	5 1/4"	5 1/8"	5 1/4"	5 1/8"	5 1/4"
Type		F.S.	S.H.	S.H.	S.F.S.	S.H.	F.S.	S.H.
Complete Assembly	Part No.	5898	5898	C-5188	8875	C-5171	C-4825	8825
(Dressed Spiral Parts)	Weight	130	130	133	138	140	182	185
Replacement Parts								
Top Sub	Part No.	5897	5899	A-5189	8876	A-5172	B-4826	8826
Bowl	Part No.	5898	5700	B-5170	8877	B-5173	B-4827	8817
Packer	Part No.	109	1140	B-2199	8114	L-5850	L-4505	8818
Spiral Grapple	Part No.	185	1135	B-2201	8112	B-4369	M-1071	8819
Spiral Grapple Control	Part No.	186	1137	B-2202	8113	B-4370	M-1072	8820
Standard Guide	Part No.	187	1143	B-2203	8121	B-4371	L-1074	8821
Basket Parts								
Basket Grapple	Part No.	185	1135	B-2201	8112	B-4369	M-1071	8819
Basket Grapple Control	Part No.	186	1137	B-2202	8113	B-4370	M-1072	8820
Mill Control Packer	Part No.	188-R	1140-R	B-2199-R	8114-R	L-5850-R	M-4505	L-8818-R

A (6.625" turned down to **6.500"** O.D.) Bowen Series 150 Overshot will be used to perform this overshot operation. Details on the overshot are listed above. Casing to tubing clearance dimensions are listed below.

5.5" 17# FJ Casing Inside 7.625" 39# FJ Casing													
Clearance (in)	Pipe Size (in)	Weight lb/ft	Grade	Conn.	Type	Body O.D. (in)	Coupling O.D. (in)	I.D. (in)	Drift (in)	Lined Wt. lb/ft	Lined I.D. (in)	Flare I.D. (in)	Lined Drift (in)
0.500	7 5/8	39.0	HCL-80	FJ	Casing	7.625	7.625	6.625	6.500	-	-	-	-
	5 1/2	17.0	HCL-80	FJ	Casing	5.500	5.500	4.892	4.767	18.500	4.520	4.400	4.275

*Red Indicates Tubing

Fishing Procedure

Overshot Fishing Procedure

In the Event of a Connection Break

- If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

- If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.
5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

In the Event of a Body Break

- If fishing neck is clean

1. Trip in hole with overshot and engage fish.
2. Pick up 2 points over neutral weight.
3. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
4. Once released from packer, trip out of hole with fish.

- If dressing fishing neck is required

1. Trip in hole with mill and dress fishing neck to allow for overshot to engage tubing.
2. Trip out of hole with mill.
3. Trip in hole with overshot and engage fish.
4. Pick up 2 points over neutral weight.

5. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
6. Once released from packer, trip out of hole with fish.

A skirted mill may be substituted for a standard mill to ensure pipe stabilization and the casing is not damaged while milling

Spear Fishing Procedure

If an overshot cannot be used to retrieve the fish, a spear may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
 2. Engage the insert liner inside the tubing with spear.
 3. Pull the insert liner out of the tubing.
 4. Trip out of hole with insert liner.
 5. Trip in hole with spear sized to engage the I.D. of the tubing.
 6. Engage the tubing with spear.
 7. Pick up 2 points over neutral weight.
 8. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
 9. Once released from packer, trip out of hole with fish.

Inside Diameter Cutting Tool Fishing Procedure

If an overshot is required but a mill cannot be used to dress off a fishing neck, an inside diameter cutting tool may be used.

- Due to the use of insert lined tubing, the composite liner must be removed from the tubing before engaging the fish with a spear.
1. Trip in hole with spear sized to engage the I.D. of the insert liner.
 2. Engage the insert liner inside the tubing with spear.
 3. Pull the insert liner out of the tubing.
 4. Trip out of hole with insert liner.
 5. Trip in hole with inside diameter cutting tool and cut the tubing below the damaged fishing neck.
 6. Trip out hole with cutting tool.
 7. Trip in hole with spear sized to engage the I.D. of the tubing.
 8. Engage the previously cut tubing segment with spear.
 9. Trip out hole with cut tubing segment and spear.
 10. Trip in hole with overshot and engage fish.
 11. Pick up 2 points over neutral weight.
 12. Turn pipe 10-15 turns to the right to release the seal assembly from the packer.
 13. Once released from packer, trip out of hole with fish.

Abandonment Procedure

If the tubing cannot be recovered and the well is to be abandoned.

- The operator will ensure that all geologic formations are properly isolated.
- 1. Confirm the I.D. of the injection tubing is free from obstructions.
- 2. Run in hole with wireline set profile plug.
- 3. Set plug inside of packer assembly.
(Plug will allow cement to fill the I.D. of the injection tubing and the tubing to casing annulus)
- 4. Run in hole with wireline conveyed perforating guns and perforate the tubing immediately above the packer.
- 5. Trip in hole with an overshot, spear, cement retainer or isolation tool that will provide a work string-to- injection tubing seal.
- 6. Engage the fish with sealing tool.
- 7. Confirm circulation down the tubing and up the tubing-to-casing annulus.
- 8. Cement the work string, injection tubing, injection tubing-to-casing annulus and work string-to-casing annulus to surface.
- 9. Confirm the entirety of the wellbore is cemented to surface and all zones are isolated.
- 10. ND wellhead and install permanent capping flange.



Attachment to C-108
Permian Oilfield Partners, LLC
Tidal Wave Federal SWD #1
Sec. 21, Twp. 25S, Rge. 32E
457' FSL, 1003' FEL
Lea County, NM

April 17, 2019

STATEMENT REGARDING SEISMICITY

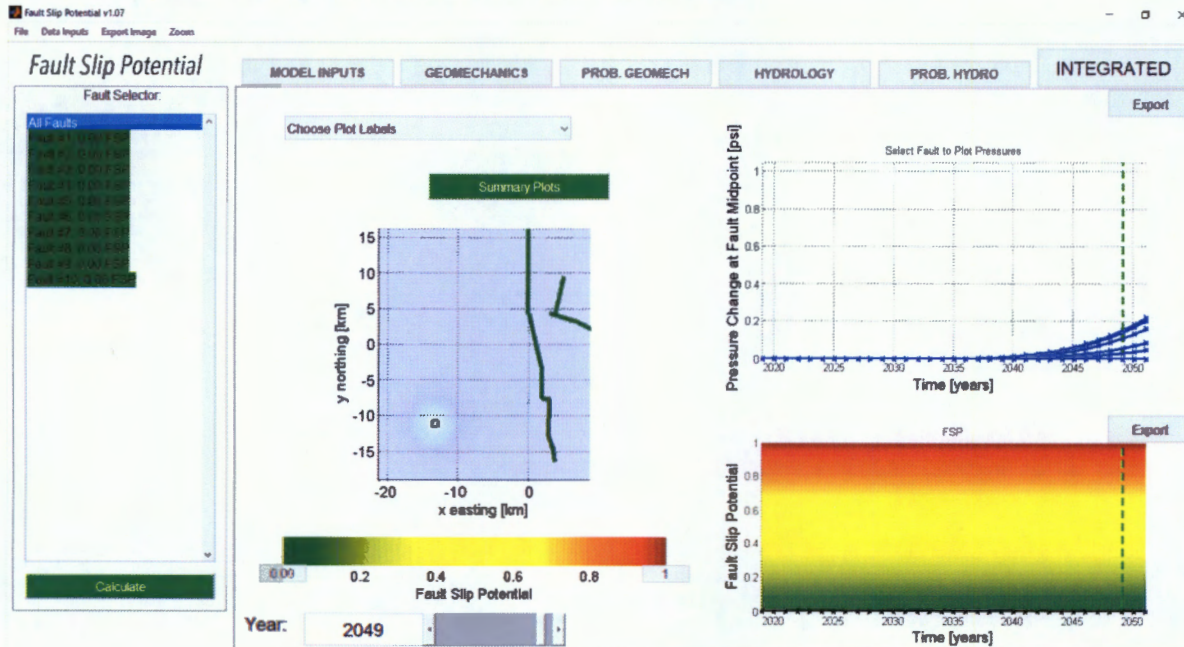
Examination of the USGS and TexNet seismic activity databases has shown minimal historic seismic activity in the area (< 30 miles) of our proposed above referenced SWD well as follows:

1. M2.9, 1984-12-09, 12.90 miles away @ 32.50 deg heading
2. M3.1, 2012-03-18, 17.44 miles away @ 313.22 deg heading

Permian Oilfield Partners does not own any 2D or 3D seismic data in the area of this proposed SWD well. Our fault interpretations are based on well to well correlations and publicly available data and software as follows:

1. USGS Quaternary Fault & Fold database shows no quaternary faults in the nearby area.
2. Based on offset well log data, we have not interpreted any faults in the immediate area.
3. Basement PreCambrian faults are documented in the Snee & Zoback paper, "State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity", published in the February 2018 issue of the SEG journal, The Leading Edge, along with a method for determining the probability of fault slip in the area.
4. Even though we do not propose to inject into the PreCambrian, Permian Oilfield Partners ran modeling to check for fault slip assuming the improbable occurrence of a total downhole well failure that would allow 100% of injected fluids to enter the PreCambrian. Software as discussed in #3 from the Stanford Center for Induced and Triggered Seismicity, "FSP 1.0: A program for probabilistic estimation of fault slip potential resulting from fluid injection", was used to calculate the probability of the PreCambrian fault being stressed so as to create an induced seismic event, with the following assumptions:
 - a. Full proposed capacity of 50,000 BBL/day for 30 years
 - b. 12.5 mD average permeability, 3% average porosity, .75 psi/ft frac gradient, .45 psi/ft hydrostatic gradient

- c. $A\text{-}\phi=0.60$ & Max Horizontal Stress direction 75 deg NW, as per Snee, Zoback paper noted above.
5. The probability of an induced seismic event in the PreCambrian is calculated to be 0% after 30 years as per the FSP results screenshot below.
 6. The analysis below assumes an improbable well failure through the Montoya and Simpson zones, into the PreCambrian. When the injected fluids stay in the Devonian-Silurian zone as per design, there will be very low probability of fault slip, since there are no known nearby faults within the Devonian-Silurian.



As per NM OCD requirements (injection well to injection well spacing minimum of 1.5 miles), this proposed above referenced SWD well is located 1.53 miles away from the nearest active or permitted Devonian disposal well.

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